

GOVERNMENT OF GOA
QUALITY CONTROL LABORATORY
WATER RESOURCES DEPARTMENT

Test Report No.: WRD / QC / F.6-2 / Cube -T : 8016,8017,8020,8021, / Lab / **342** / 2019 - 20 Dated:- 20 / 12 / 2019 Laboratory : Bicholim - Goa.

8046,8047,8053,8054,8073,8074,8088 & 8089 .

Sub Division V (QC)/WRD/ Bicholim- Goa.

Name of work :- Improvement to the R.B.M.C. of T.I.P. from Ch. 6.020 Kms To Ch. 12.400 Kms including providing R.C.C. lining for the bottom critical portion between ch.9.550 kms to Ch.9.650 km, Ch. 9.650 Kms To Ch. 9.950 Kms and Ch. 10.050 Kms to Ch. 10.465 kms at villages Chandel , Kasarvarnem in Pernem Taluka.

Ref to requisition No.:- WRD / SD I/WDVII/ F.354 /2019-20/**250** dated :- 11 / 12 / 2019.

Qty. Recived. : 12 Sets of cube Date of Receipt:- 11 / 12 / 2019. Tested on: - 11/12/2019 To 17/12/2019 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cubes Mix of 1:3:6 & 1 : 1.5 : 3 O.S No. : 1227,1228 /AF, 2818,2819,2847,2848,2854,2855/SS,1233,1234,1247,1248/AF. Lab. Sample No.: 7207 To 7218 Tested By: Mr. Anil. R. Fadte., J.E. & Mrs. S.B.Naik Shirodkar. J.E.

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 04 /12/2019, PCC for Canal Base from ch. 9.550 Km To Ch. 9.750 Km.	7 th day compressive strength	95.14	Kg/Cm ²	70.00 Kg/cm ²	29.44	1) Qty represents - 40.00 Cum for two sets of cubes cast on 04/12/2019 2) 28 th day test is due on 01 / 01 / 2020 , which may please be witnessed .
			90.61	Kg/Cm ²			
			86.08	Kg/Cm ²			
			Average	90.61			
2	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 04 /12/2019, PCC for Canal Base from ch. 9.550 Km To Ch. 9.750 Km.	7 th day compressive strength	83.81	Kg/Cm ²	70.00 Kg/cm ²	24.05	... Do
			86.08	Kg/Cm ²			
			90.61	Kg/Cm ²			
			Average	86.84			
3	Reinforced Cement concrete cube of mix 1 : 3 : 6 , cast on 05 /12/2019, PCC for Canal Base from ch. 9.750 Km To Ch. 9.850 Km.	7 th day compressive strength	88.35	Kg/Cm ²	70.00 Kg/cm ²	20.81	1) Qty represents - 20.00 Cum. 2) 28 th day test is due on 02 / 01 / 2020 , which may please be witnessed .
			79.28	Kg/Cm ²			
			86.08	Kg/Cm ²			
			Average	84.57			
4	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 05 /12/2019, RCC for Canal Lining from Ch. 9.550 Km To Ch. 9.585 Km.	7 th day compressive strength	160.83	Kg/Cm ²	175.00 Kg/cm ²	-3.35	1) Qty represents - 20.00 Cum. 2) 28 th day test is due on 02 / 01 / 2020 , which may please be witnessed .
			172.16	Kg/Cm ²			
			174.43	Kg/Cm ²			
			Average	169.14			
5	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 06 /12/2019, RCC for Canal Lining from Ch. 9.585 Km To Ch. 9.655 Km.	7 th day compressive strength	188.02	Kg/Cm ²	175.00 Kg/cm ²	2.26	1) Qty represents - 40.00 Cum for two sets of cubes cast on 06/12/2019 2) 28 th day test is due on 03 / 01 / 2020 , which may please be witnessed .
			167.63	Kg/Cm ²			
			181.22	Kg/Cm ²			
			Average	178.96			

Junior Engineer

Assistant Engineer

SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 06 /12/2019, RCC for Canal Lining from Ch. 9.585 Km To Ch. 9.655 Km.	7 th day compressive strength	215.20	Kg/Cm ²	175.00 Kg/cm ²	18.23	1) Qty represents - 40.00 Cum for two sets of cubes cast on 06/12/2019 2) 28 th day test is due on 03 / 01 / 2020 , which may please be witnessed .
			199.34	Kg/Cm ²			
			206.14	Kg/Cm ²			
			Average	206.89			
7	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 07 /12/2019, RCC for Canal Lining from Ch. 9.655 Km To Ch. 9.725 Km.	7 th day compressive strength	167.63	Kg/Cm ²	175.00 Kg/cm ²	1.83	1) Qty represents - 40.00 Cum for two sets of cubes cast on 07/12/2019 2) 28 th day test is due on 04 / 01 / 2020 , which may please be witnessed .
			192.55	Kg/Cm ²			
			174.43	Kg/Cm ²			
			Average	178.20			
8	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 07 /12/2019, RCC for Canal Lining from Ch. 9.655 Km To Ch. 9.725 Km.	7 th day compressive strength	219.73	Kg/Cm ²	175.00 Kg/cm ²	14.34	... Do
			165.36	Kg/Cm ²			
			215.20	Kg/Cm ²			
			Average	200.10			
9	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 09 /12/2019, RCC for Canal Lining from Ch. 9.725 Km To Ch. 9.795 Km.	7 th day compressive strength	183.49	Kg/Cm ²	175.00 Kg/cm ²	2.26	1) Qty represents - 40.00 Cum for two sets of cubes cast on 09/12/2019 2) 28 th day test is due on 06 / 01 / 2020 , which may please be witnessed .
			174.43	Kg/Cm ²			
			178.96	Kg/Cm ²			
			Average	178.96			
10	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 09 /12/2019, RCC for Canal Lining from Ch. 9.725 Km To Ch. 9.795 Km.	7 th day compressive strength	208.40	Kg/Cm ²	175.00 Kg/cm ²	14.34	... Do
			215.20	Kg/Cm ²			
			176.69	Kg/Cm ²			
			Average	200.10			
11	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 10 /12/2019, RCC for Canal Lining from Ch. 9.795 Km To Ch. 9.865 Km.	7 th day compressive strength	192.55	Kg/Cm ²	175.00 Kg/cm ²	5.71	1) Qty represents - 40.00 Cum for two sets of cubes cast on 10/12/2019 2) 28 th day test is due on 07 / 01 / 2020 , which may please be witnessed .
			178.96	Kg/Cm ²			
			183.49	Kg/Cm ²			
			Average	185.00			
12	Reinforced Cement concrete cube of mix 1 : 1.5 : 3 , cast on 10 /12/2019, RCC for Canal Lining from Ch. 9.795 Km To Ch. 9.865 Km.	7 th day compressive strength	176.69	Kg/Cm ²	175.00 Kg/cm ²	6.58	... Do
			194.81	Kg/Cm ²			
			188.02	Kg/Cm ²			
			Average	186.51			

Copy to: 1. The Assistant Engineer , SDI , WD VII, WRD, Dhargal - Pernem - Goa.

2. Copy submitted to The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. Copy submitted to The Executive Engineer ,WD VII ,WRD, Dhargal - Pernem - Goa.

4. QC Lab File. 5. Bill File.

Junior Engineer

Assistant Engineer